<u>U 24846-66</u> ACC NR: AP6007813

single spark gap is the ratio of the number of ignitions to the number of particle transits. It was found that the chamber efficiency in the case of series connected spark gaps is higher than that of a parallel-fed chamber when the supply voltages are identical. The increase in efficiency when the supply voltage is raised and the reduction in frequency as related to the pulse delay is steeper for the series power supply. The memory time of the chamber for both types of connection is approximately identical both with and without a clearing field. The tracks of the sparks are thinner and more uniform with series gap connection due to the fact that the current is the same for all gaps. No special measurements were made of the chamber efficiency for the case of simultaneous registration of several particles. However, it is pointed out that several particles were registered simultaneously at a comparatively low electric field strength in the gap in the case of a series-connected power supply. The multitrack efficiency of the chamber may be improved by increasing the duration or amplitude of the high-voltage pulse. Orig. art. has: 8 figures, 2 formulas.

SUB CODE: 18/ SUBM DATE: 15Jan65/ ORIG REF: 002/ OTH REF: 001

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ACC NR: AP6035920

SOURCE CODE: UR/0413/66/000/020/0173/0173

AUTHOR: Rozhin, D. P.; Gus'kov, B. N.; Stil'nik, E. V.; Baskakov, V. I.; Veselin, V. S.

ORG: none

TITLE: Shut-off pyrovalve. Class 47, No. 187463

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 173

TOPIC TAGS: valve, aircraft fuel system, fuel feed system

ABSTRACT: The proposed valve for use, for instance, in aircraft fuel systems, contains a pyromechanism-controlled shut-off element and a housing with a flow-through section having inlet and outlet ducts and a sealing flange. To ensure air-tight sealing by closing the shut-off

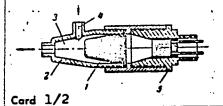


Fig. 1. Pyrovalve

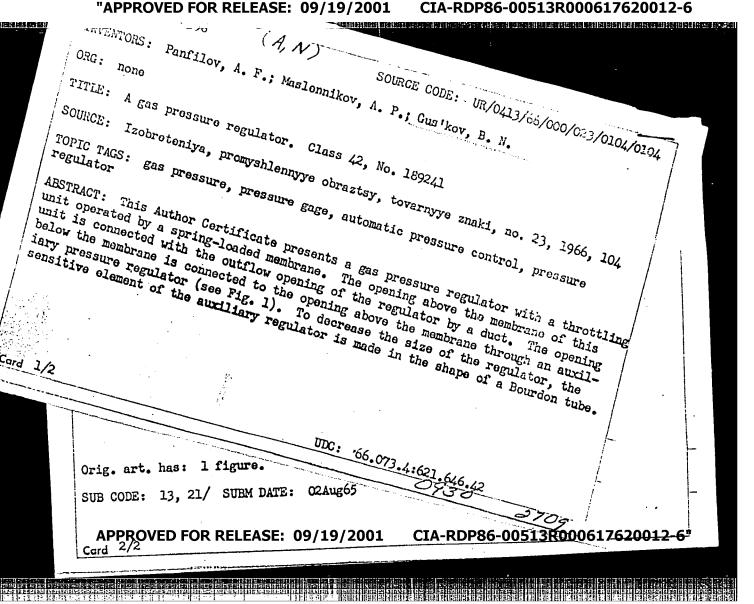
- 1 Shut-off element; 2 valve housing;
- 3 flow-through section; 4 inlet duct;
- 5 pyromechanism

UDC: 621.646 621.45

15 また。15 ままし こうかい June 140 a 計画的機構では全球性の経過性の発酵の指摘を使っては相談があれられた。 ままなど Liter 1530 a transfer

element along a single contact surface, to decrease the size and weight of the valve, and also to simplify its design, the flow-through section of the housing is made in the form of a conical seat; the inlet (or outlet) duct closes when the pyromechanism triggers the shut-off element. This element has the shape of a truncated cone (see Fig. 1). Orig. art. has: 1 figure. [WA-76]

SUB CODE:: 21/3/SUBM DATE: 13Feb65/



QUS'KOV, B. S. Engineer

USSR

"Manufacture of Worm Recks", Stanki I
Instrument, 14, No. 6, 1943

BR-52059019

GUS'KOV, B. S., Engineer

USSR

Increasing the Length of Service of Friction Disks in the DiP-200 Lathe." Stanki I Instrument Vol. 15, No. 6, 1944

BR 52059019

GUSIKOV, B.S., Engineer

USSR

"A New and Modernized Design for the Automatic-Feed Lock Machanism on the Slides of Lathes." Stanki I Instrument Vol. 15, No. 9, 1944

BR 52059019

GUS'KOV, B. S., Engineer USSR "Increasing the Table Travel of a Planing Machine." Stanki I Instrument Vol. 15, No. 10-11, 1944 BR 52059019

CUS'KOV, B. S., Engineer

USSR

"an Attachment for Accelerating Slide Travel on
Lethes." Stanki I Instrument Vol. 15, No. 12, 1944

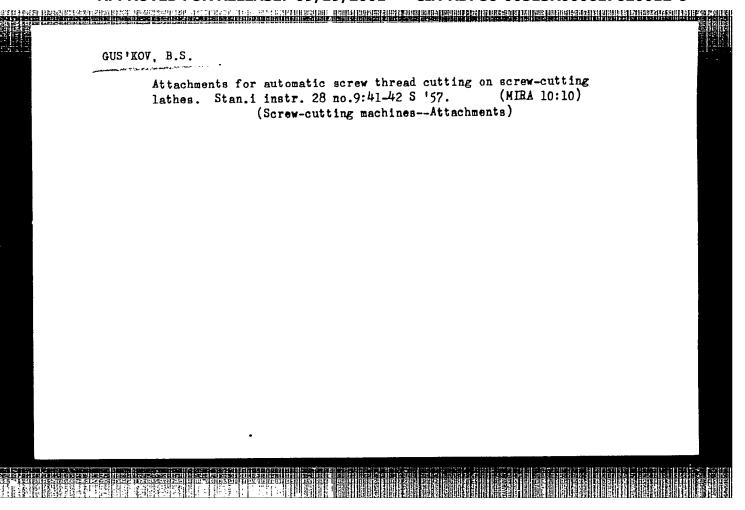
BR 52059019

OUS'KOV, B.S., dotsent; LEUTA, V.I., redaktor; RUDEESKIY, Ya.V., tekhredaktor.

[Cutting processes in power method turning] Reshimy rezentia pri tochenii silovym metodom. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudqstroit. lit-ry, 1954. 33 p. (MLRA 7:12) (Metal cutting)

FILONENKO, Serafim Nikonovich; KOSTYUKOV, Viktor Aleksandrovich; RODIN, Petr Rodionovich; GUS'KOV, Boris Sergeyevich; KAINCHENKO, A.G., inshener, redaktor; SERDYUK, V.K., Inshener; redaktor; RUDENSLIY, Ya.V.; tekhnicheskly redaktor.

[Concise manual for tool operators at machine-tractor stations]
Kratkin sprayochnik stanochnika MTS. Kiev, Gos.nauchno-teknilisdvo mashinostroit. lit-ry, 1955. 319 p. (MLRA 9:5)
(Machine-tractor stations) (Metalwork)



GUS'KOV, B.S.; KRAKHIN, A.G.

Wear of cutters and surface smoothness in fine boring of cast-iron bushings on diamond boring machines. Stan.i instr. 33 no.5:31 My '62. (MIRA 15:5)

(Drilling and boring)

GUS*KOV, B.S., kand. tekhn. nauk; KRAKHIN, A.G., inzh.

Dimensional strength of hard-alloy cutting tools and surface roughness in fine boring of cast-iron parts. Mashinostroenie no.1:25-27 Ja-F *63. (MIRA 16:7)

1. Odesskiy tekhnologicheskiy institut im. Lomonosova. (Drilling and boring)

ACCESSION NR: AP4043975

S/0121/64/000/008/0023/0024

AUTHOR: Krakhin, A. G.; Gus'kov, B. S.; Berezovskiy, G. P.

TITLE: The use of TsM332 cutting tools in fine boring

SOURCE: Stanki i instrument, no. 8, 1964, 23-24

TOPIC TAGS: boring tool, TsM332 alloy, fine boring mill, T30K4 alloy, cutting speed, cutting feed, surface finish, ceramic tip, ceramic tool

ABSTRACT: One-piece boring tools were made of TsM332 alloy by the Moskovskiy kombinat tverdy*kh splavov (Moscow Combine of Hard Alloys).

Tools, 6, 8, and 12 mm in diameter and 20 mm long average was alloys).

Moskovskiy kombinat tverdy*kh splavov (Moscow Combine of Hard Alloys). Tools, 6, 8, and 12 mm in diameter and 20 mm long, were sintered to RA 91—91.5 and were ground with a diamond wheel to: $\psi=60^{\circ}$, $\psi_1=15^{\circ}$, $\gamma=3^{\circ}$, $\alpha=12^{\circ}$, $\lambda=0^{\circ}$, r=0.3 mm. In operation they were held in a boring bar 25 mm in diameter, made of steel 45. They were tested on 55 x 20 mm bushings with internal diameters of 29—35 mm, made of steel 45. It was desired these tools be compared with those made of T30K4 alloy. The tests determined tool wear at cutting speeds v=200-375 m/min, the wear at the feeds s=0.015-0.075 mm/rev, and also the

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ACCESSION NR: AP4043975

surface roughness obtained at the depth of cut t = 0.1 mm and v = 320 m/min. The wear sustained by the cutter in a given length of cut was determined indirectly by measuring the taper of the bushing hole. The thermal elongation of the tools was found to be negligible due to the short machining time. These experiments proved that, under the given conditions, the use of one-piece cutters of TsM332 alloy eliminated the losses related to brazing or mechanical fixing of standard tips and that they withstood a cutting speed twice as high as that tolerated by T30K4-alloy tools (see Figs. 1 and 2 of the Enclosure). The new tools also produced a surface finish dependent only on the tool geometry and practically independent of the cutting speed. The optimal conditions for the TsM332 tools are: v ~ 280-320 m/min, t = 0.1 mm, and s = 0.045 mm/rev. To prevent chipping the TsM332 cutters they should be disengaged from the metal before being withdrawn from the sleeve. Orig. art. has: 4 figures.

ASSOCIATION: none

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ENCL: 01

SUB CODE: IE, MM

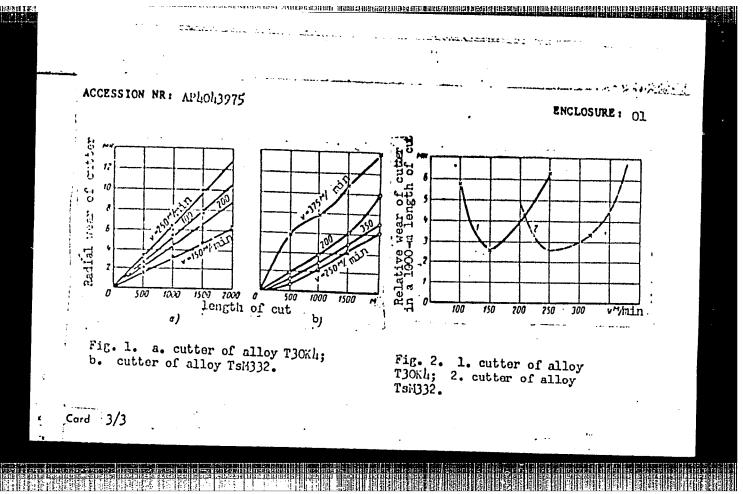
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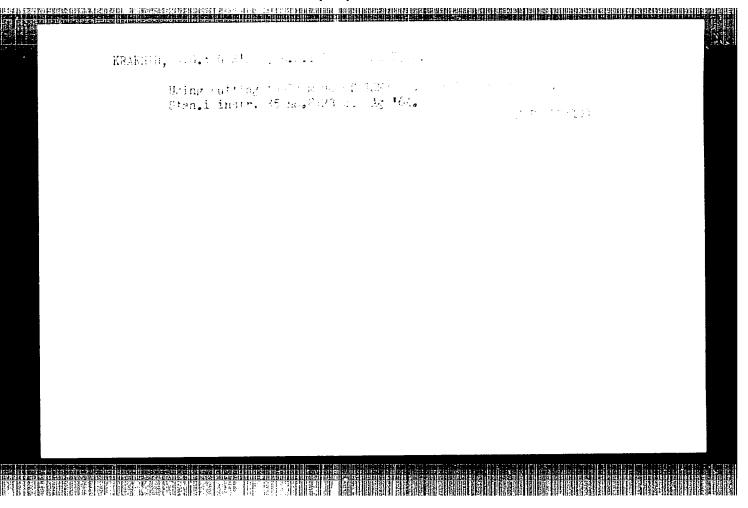


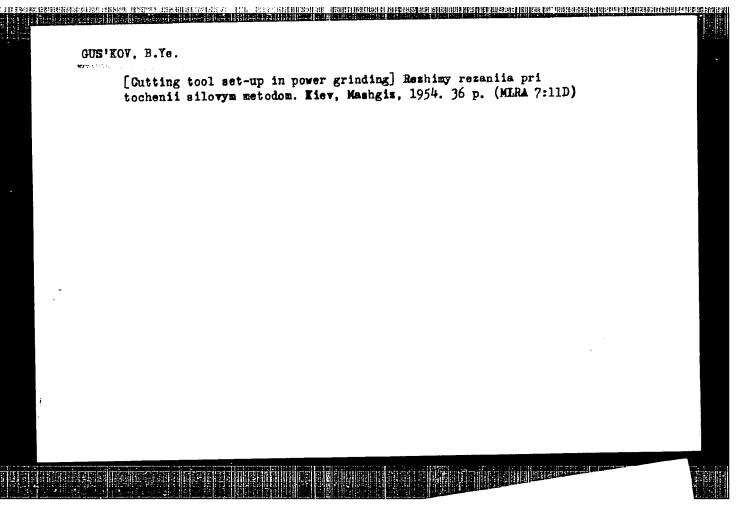
GUS'KOV, B.S.; KRAKHIN, A.G.; BEREZOVSKIY, G.P.

Boring bar with mechanical fastening of ceramic tips for a diamond boring machine. Stan.1 instr. 34 no.3:34 kt 163.

(MIRA 16:5)

(Drilling and boring machinery)





CIA-RDP86-00513R000617620012-6 "APPROVED FOR RELEASE: 09/19/2001

22017 s/145/61/000/003/002/006 D205/D304 Application of plastics for anti-friction bearings 15.8340 Gus'kov, D.D., Engineer PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, no. 3, 1961, 50 - 57 mashinostroyeniye, no. 3, 1961, 50 - 57 AUTHOR & TEXT: The article gives a short historical review of the use of TEAT: The article gives a short historical review of the use of plastics for anti-friction bearings and discusses the manufacture; TITLE. plastics for anti-friction bearings and discusses the manufacture properties and application of bearing components made of various properties and application of bearing cases should have the plastic materials. Meterials for bearing cases should have the properties and application of bearing components made of various plastic materials. Materials for bearing cages should have the plastic materials. Materials for bearing cages should have the plastic materials. Materials for bearing cages should have the plastic materials. Materials for bearing components made of various plants of the pl plastic materials. Materials for bearing cages should have the dry long properties; high wear resistance, low coefficient of dry following properties; high wear resistance, high temperature resistanticition, good adsorption of lubricants, high temperature exferiction, good adsorption of lubricants, high temperature exferiction, good adsorption of lubricants, high temperature exferiences dimensional stability and low coefficient of temperature exferiences. iriction, good adsorption of jubricants, night temperature resistence, dimensional stability and low coefficient of temperature expension. It has been proved that some plantice are particularly pared on the been proved that ce, dimensional stability and low coefficient of temperature expansion. It has been proved that some plastics are particularly pansion. It has been proved that some plastics are particularly pansion. It has been proved that some plastics are particularly pansion. They can resist higher normal and tangential suitable for cages. They can resist higher registered to mean forces in sliding friction and have a higher registered. sultable for cages. They can resist nigher normal and tangential forces in sliding friction and have a higher resistance to wear Card 1/6

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Application of plastics ...

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than steel or brass. A valuable property of plastics is that a fault will lead to failure much more slowly than in a metal component. Plastics are also less susceptible to shock. Tests on a special rig in which a specimen was rubbed by a revolving wheel showed that the best plastics for cages are fiber plastics based on phenol-formaldehyde resin and those containing graphite with pure cotton as a filler. Wear for brass was 8 times higher than for fiber plastics, although the applied pressure was 35 kg/cm² for plastics and only 15 kg/cm² for brass specimens. First, plastic cages were machined from textolite tubes but attempts to make production cheaper resulted in pressed cages made from special thermo-setting compounds containing short fibers as filler. A phenol-formaldehyde compound containing wood filings was developed for this purpose in the USSR. In the GDR split cages were press-formed from a compound containing textile fibers and fine pieces of textiles. These did not require machining except drillings for rivets. Cages past from polyamides are the cheapest — although not the best states the

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Application of plastics ...

S/145/61/000/003/002/006 D205/D304

author -- to produce, requiring only the removal of the flash, but they have a lower dimensional stability, a much greater sensitivity to external conditions (humidity, temperature, presence of solvents, etc.) and cannot be used above 80°C. Early plastic cages copied the massive design of brass cages. An improved strip design is shown in Fig. 2.

Fig. 2. Press-formed separator with sections of constant thickness.

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Рис. 2. Прессованный сепаратор с сечениями постоянной толшины

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Application of plastics ...

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This ensures uniform heating and a better dimensional stability. Also, the rivet holes are shorter and can be press-formed. A polyamide cage of this form can be cast in one piece, as the balls can be inserted in position owing to the high elasticity of this plastic. Rolling elements made of plastics have some advantages over those made of steel, namely: Cheapness, lower weight, good resistance to shock loading (no brinelling), corrosion resistance, lower sensitivity to dirt and lower quantity of oil, lower noise level. The disadvantages are: Low load capacity, high friction torque. Therefore, bearings with plastic rolling elements can operate only up to 15 rpm with cage speeds up to 150 m/min and within temperature limits of -54 to 150°C. Of the many plastics tested, melamine (without a filler) and phenol-formaldehyde with α -cellulose were found to be the best for rolling elements. One inch melamine balls tested between flat plates failed under 2000 kg with a deformation of 1.4 mm. In a bearing with a usual osculation, this load will be 40 to 50 % higher. Plastic balls are formed in dies

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Application of plastics ...

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under high pressure or made from rods. They are then ground on centerless grinding machines and finished in drums with an abrasive. The balls are stress-relieved before final grinding. 10 mm balls from phencl plastic withstood 90.7 kg between flat plates without permanent deformation, but the failing load varied from 193 to 454 kg. By strict control of the processes a minimum failing load of 340 kg could be ensured. Phenol balls require a long hardening time (15 min for 0.5 in balls) and balls in pure melamine tend to absorb gases when being formed. Melamine with α -cellulose is easier to use. By applying plastic rolling elements and aluminum or magnesium races, the weight of a bearing can be reduced by 65 to 85 %. Plastic bearings need not be as accurate or as well finished as steel ones. Their cost is also about 75 % less and they do not need oil, except to reduce friction torque and to protect the metal parts from corrosion. There are 3 figures and 8 references; 3 Soviet-bloc and 5 non-Soviet-bloc. The references to the English-language publications read as follows; I.E. Montalbano,

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Application of plastics ...

22017 S/145/61/000/003/002/006 D205/D304

Plastic ball and roller bearings, Machine Design, 1958, 30, no. 16, 95-99; W Gzygan, Plastic ball bearings compete with steel, Iron Age,

ASSOCIATION: MYTU im. N.E. Baumana (Moscow Technological College (MVTU) im. N.E. Bauman)

SUBMITTED: November 2, 1960

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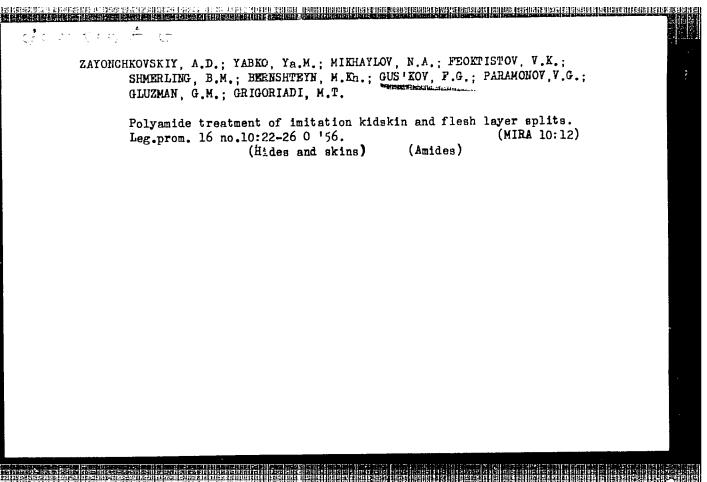
(Plastic bearings)

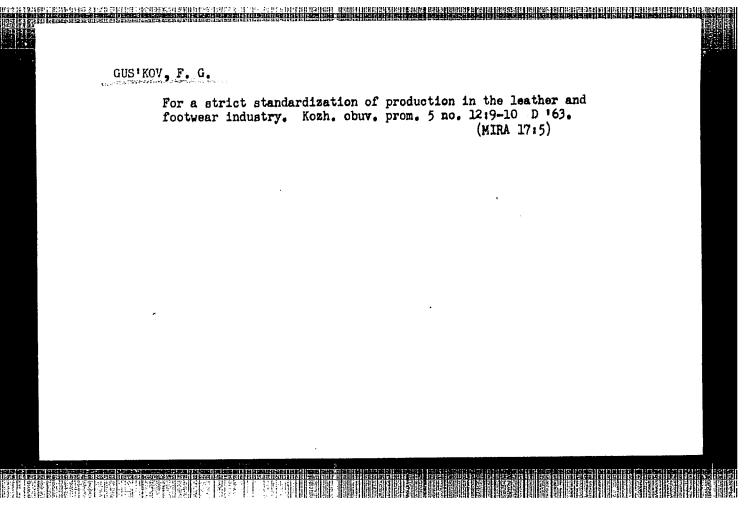
Using plastics in antifriction bearings. Izv. vys. ucheb. zav.;
mashinostr. no. 3:50-57 '61. (MIRA 14:5)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.

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9.	Monthly	List of	Russian	Accessions,	Library of	Congress	,	_ 1953 ,	Uncl.





GEL'FAND, Mark Samsonovich; GUS'KOV, G.G., red.; SOKOLOVA, R.Ya., tekhn. red.

[Teaching algebra in the eighth grade of schools for working youth] Prepodavanie algebry v vos mom klasse shkoly rabochei molodezhi.

Moskva, Izd-vo Akad. pedagog. nauk RSFSR, 1957. 131 p.

(MIRA 14:7)

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GEL'FAND, Mark Samsonovich; GUS'KOV, G.G., red.; LAUT, V., tekhn. red.

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SHEVCHENKO, Ivan Nikitin; GUS'KOV, G.G., red.; LAUT, V.G., tekhn. red.

[Methods of teaching common fractions] Metodika prepodavaniia obyknovennykh drobei. Moskva, Izd-vo Akad. pedagog. nauk RSFSR, 1958. 129 p. (MIRA 14:7)

(Fractions—Study and teaching)

LOMOV, Boris Fedorovich; ANAN'YEV, B.G., prof., red.; GUS'KOV, G.G., red.; TARASOVA, V.V., tekhn.red.

[Formation of graphic knowledge and skills in students] Formirovanie graficheskikh znanii i navykov u uchashchikhsia. Pod red.B.G.Anan'eva. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1959.

268 p. (MIRA 13:7)

(Drawing-Instruction)

SEMAKIN, N.K.; VORONTSOV-VEL'YAMINOV, B.A., prof., red.; GUS'KOV, G.G., red.; NOVOSELOVA, V.V., tekhn.red.

[Teaching astronomy in schools; collected articles] Prepodavanie astronomii v shkole; sbornik statei. Pod red. B.A.Vorontsova-Vel'iaminova. Moskva, 1959. 269 p. (MIRA 13:2)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut metodov obucheniya. 2. Laboratoriya metodiki fiziki Instituta metodov obucheniya Akademii pedagogicheskikh nauk RSFSR i Shkola No.500 g. Moskvy (for Semakin). 3. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR i Pedinstitut imeni V.P.Potemkina, g.Moskva (for Vorontsov-Vel'yaminov).

(Astronomy -- Study and teaching)

KUZ'MINA, Serafima Alekseyevna; FETISOV, A.I., red.; GUS'KOY, G.G., red.;
SHAPOSHRIKOVA, A.A., red.; NOVOSKLOVA, V.V., tekhn.red.

[Demonstrating theorems in the 6th grade geometry course] O dokazatel'stve teorem v kurse geometrii VI klassa. Pod red. A.I.
Fetisova. Moskva, Izd-vo Akad.pedegog.nauk RSFSR, 1960. 49 p.

(Geometry--Study and teaching)

(Geometry--Study and teaching)

ARKAD'YEVA, O.M.; KOCHERGIN, N.L., matematik, red.; MOTINA, Ye.I., lingvist, red.; GUS'KOV, G.G., red.; MASLENNIKOVA, T.A., tekhn. red.

[Reading-book on mathematics, machanics, and astronomy; textbook for foreign students studying the Russian language] Kniga dlia chteniia po matematike, mekhanike i astronomii; dlia studentov-inostrantsev, izuchaiushchikh russkii iazyk. Uchebnoe posobie. Moskva, Izd-vo Mosk. univ., 1961. 172 p. (MIRA 14:11) (Mathematics)

YKNOKHOVICH, Anatoloiy Sergeyevich; REZNIKOV, L.I., red.; (NUS'KOV, G.G., red.; NOVOSKIOVA, V.V., tekhn. red.

[Teaching physics in the eight-year school] 0 prepodavanii fiziki v vos miletnei shkole. Pod red. L.I.Reznikova. Moskva, Izd-vo Akad. pedagog. nauk RSFSR, 1961. 190 p. (MIRA 14:5) (Physics-Study and teaching)

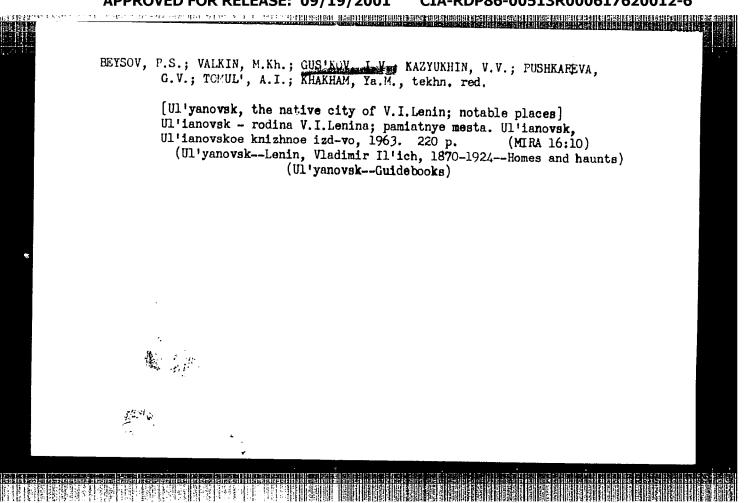
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KOTEL'NIKOV, V. A., akademik: GUS'KOV, G. Ya.; DUBROVIN, V. M.;
DUBINSKIY, B. A.; KISLIK, M. D.; KORENBERG, Ye. B.; MINASHIN,
V. P.; MOROZOV, V. A.; NIKITSKIY, N. I.; PETROV, G. M.;
PODOPRIGORA, G. A.; RZHIGA, O. N.; FRANTSESSON, A. V.;
SHAKHOVSKOY, A. M.

Radar tracking of the planet Mercury. Dokl. AN SSSR 147 no.6: 1320-1323 D '62. (MIRA 16:1)

1. Institut radiotekhniki i elektroniki AN SSSR.

(Mercury(Planet)) (Radar in astronomy)



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LEBEDEV, N.N.; GUS'KOV, K.A.

Reactions of oxides. Part 2: Kinetics of the reaction of ethylene oxide with acetic and monochloracetic acids. Kin.i kat. 4 no.1:116-127

Ja-F 163. (MIRA 16:3)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.
(Ethylene oxide) (Acetic acid) (Chemical reaction, Rate of)

LEBEDEV, N.N.; GUS'ROV, K.A.

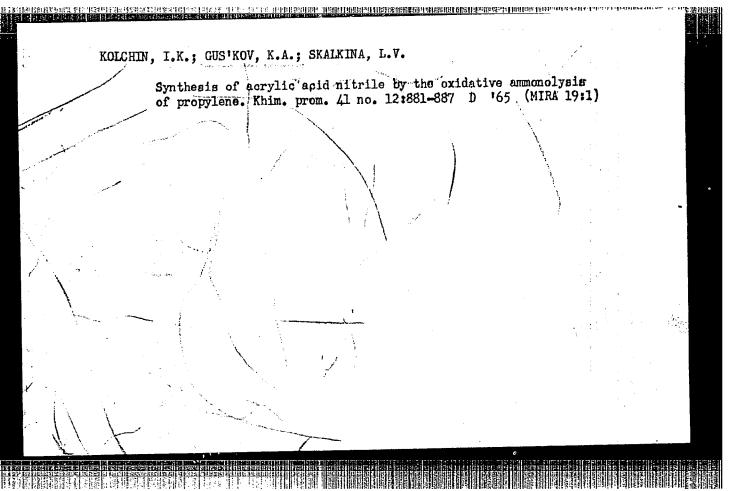
Reactions involving &-oxides. Part 4: Acid eats I als and the intermediate compounds yielded by the reaction of ethylene oxide with carboxylic acids. Kin. i kat. 5 no.3:446-453 My-Je 164. (MJEA 17:11)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

LEBEDEV, N.N.; GUS'KOV, K.A.

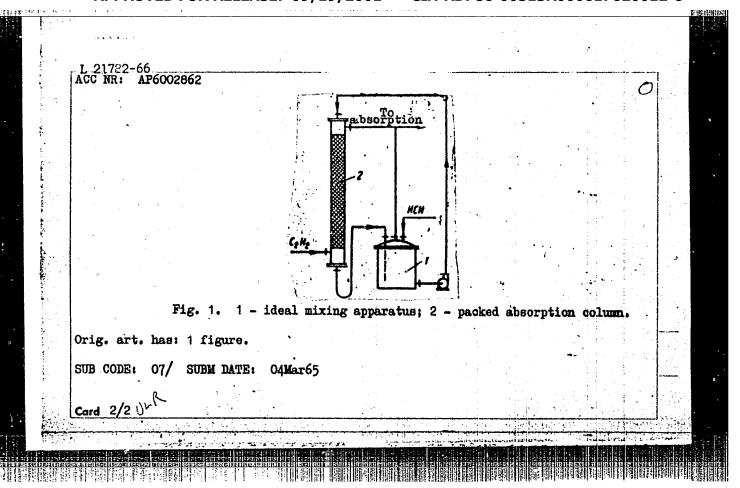
Reactions of \angle -oxides. Part 5: Reactivity of carboxylic acids in the reaction with ethylene oxide. Kin. i kat. 5 no.5:787-791 S-0 1 64. (MIRA 17:12)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.



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VERKHOVTSEV, E.V.; KHAN, B.Kh.; GUS'KOV, K.M.; GUSHCHIN, Yt.F.; MOROZENSEIY, A.I.

Deoxidation and alloying of steel by solid ferroalloys in laddles.

Hul. tekh.-ekon. inform. no.1:12-16 '57. (MIRA 11:4)

(Steel-Metallurgy)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617620012-6"

GUS'KOV, K.P.; MACHIKHIN, Yu.A.; KALININ, Yu.V.

Effect of the material of macaroni dies on the pressure in pressing. Izv. vys. ucheb. zav.; pishch. tekh. no.4: 95-97 '63. (MIRA 16:11)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafreda soprotivleniya materialov.

GUS¹KOV, K. P.

Cand Tech Sci

Dissertation: "Investigation of the Forcing Screws of Macaroni Presses Underload and their Design."

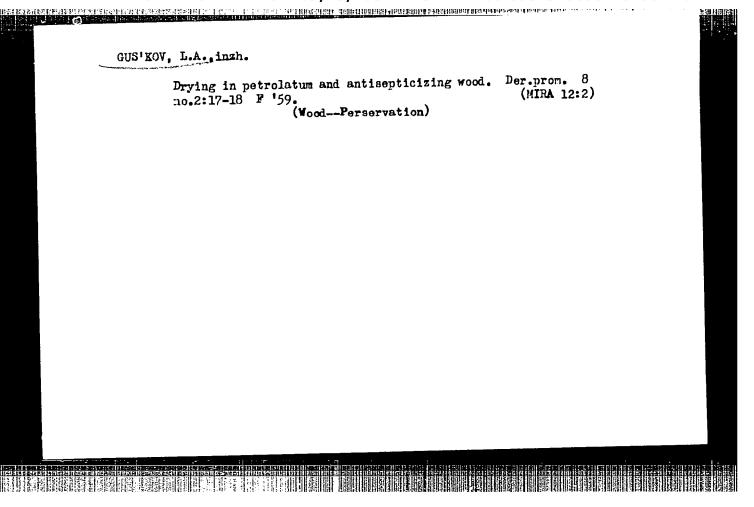
5 Oct 49
Moscow Technological Inst of Food Industry:

SO Vecheryaya Moskva Sum 71

GUS'KOV, K.P.; MACHIKHIN, Yu.A.; KALININ, Yu.V.

Chemical nickel plating of macaroni matrices. Izv.vys.ucheb.zav.; pishch.tekh. no.4:121-123 '62. (MIRA 15:11)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra soprotivleniya materialov. (Nickel plating)



GERNET, M.M., doktor tekhn.nauk, prof.; DIKIS, M.Ya., doktor tekhn.nauk, prof.; LUK'YANOV, V.V., doktor tekhm.nauk, prof. [deceased]: POFOV, V.I., doktor tekhn.nauk, prof.; SOKOLOV, A.Ya., doktor tekhn.nauk, prof.; SOKOLOV, V.I., doktor tekhn.nauk, prof.; SURKOV, V.D., doktor tekh.nauk, prof.; BARANOVSKIY, N.V., kand.tekhn.nauk,dots.; BROYDO, B.Ye., kand.tekhn. nauk, dots.; BUZYKIN, N.A., kand.tekhn.nauk, dots.; GORÓSHENKO, M.K., kand.tekhn.nauk, dots.; GORTINSKIY, V.V., kand.tekhn.nauk, dots.; GREBENYUK, S.M., kand.tekhn.nauk, dots.; GUS'KOV, K.P., kand.tekhn. nauk, dots.; DEMIDOV, A.R., kand.tekhn.nauk, dots.; ZHISLIN, Ya.M., kand.tekhn.nauk, dots.; KARPIN, Ye.B., kand.tekhn.nauk, dots.; KOSITSYN, I.A., kand. tekhm.nauk, dots. [deceased]; GEYSHTOR, V.S., kand.tekhn.nauk, dots.; MARSHALKIN, G.A., kand.tekhn.nauk, dots.; MOLDAVSKIY, G.Ye., kand.tekhn.nauk, dots.; ODESSKIY, D.A., kand. tekhn.nauk, dots.; PELEYEV, A.I., kand.tekhn.nauk, dots.; RUB, D.M., kand.tekhn.nauk, dots.; SKOBLO, D.I., kand.tekhn.nauk, dots.; SHUVALOV, V.N., kand.tekhn.nauk, dots.; KHMEL'NITSKAYA, A.Z., red.; SOKOLOVA, I.A., tekhn. red.

[Principles of the design and construction of machinery and apparatus for the food industries] Osnovy rascheta i konstruirovaniia mashin i apparatov pishchevykh proizvodstv. Moskva, Pishchepromizdat, 1960.

(MIRA 14:12)

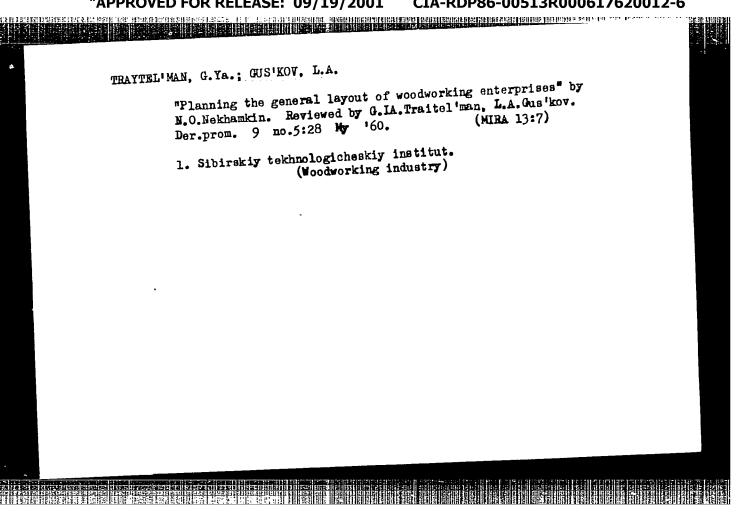
(Food industry—Equipment and supplies)

GUS'KOV, K.P.; MACHIKHIN, Yu.A.; KALININ, Yu.V.

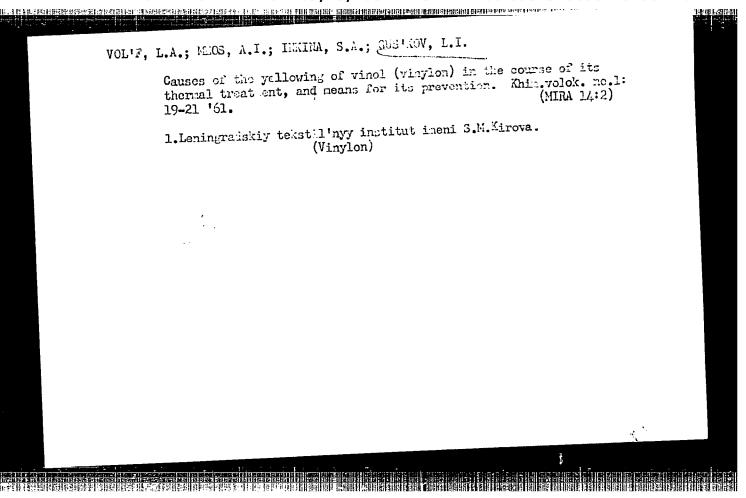
Investigation of the surface foughness of macaroni products. Izv. vys.

ucneb. zav.; pishch. tekh. no.4:92-94 '61. (Mic. 14:8)

 Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra soprotivleniya materialov. (Macaroni)



CIA-RDP86-00513R000617620012-6" APPROVED FOR RELEASE: 09/19/2001



SOURCE CODE: UR/0120/66/000/004/0068/0071 (N)ACC NRI AP6030132 AUTHORS: Artem'yev, V. V.; Gus'kov, L. N.; Mikhaylov, V. N. ORG: Institute of Semiconductor Physics, SO AN SSSR, Novosioirsk (Institut fiziki TITLE: Rapid correlating photon counter for the visible region of the spectrum poluprovodnikov SO AN SSSR) SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 68-71 TOPIC TAGS: photomultiplier tube, photon emission, photomultiplier, laboratory optic instrument, signal correlation/ FEU-30 photomultiplier ABSTRACT: The time characteristics of a photon counter which records single photons are analyzed. The counter is a photon correlator in a coherent light beam over a time interval up to 6×10^{-10} sec. The threshold sensitivity of the counter is set at 2×10^{-16} volts. The block schematic for the counter is given. It has two principal components: an FEU-30 photomultiplier (PM), and a tunnel diode discriminator. The latter has a sensitivity of 0.1 volt over a pulse duration of 3 nanosec. The principal features of the PM and the discriminator circuit are also given. The discriminator allows a 20-200 nanosec pulse adjustment. A sample of a standing wave record is shown with a half-width of 1.24 nangsec. The photon current source used for time correlation is a mercury lamp at 5460.7 A wavelength. The authors express their gratitude to S. P. Bezborodov for assembling many of the instrument chassis. Orig. art. has: 3 figures and 1 table. OTH REF: 005 621.387.464.3 SUB CODE: 09, 20/ SUBM DATE: 15Jul65/ ORIG REF: 001/

CUE'KOV, M.D.; KAN. A.G.

Experimental investigation of the effect of vibrating loads on the woar of samples in friction against a solid abrasive. Izv. vysh. ucheb. zav.; noft' i gaz 6 no.):109-112 '63.

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akdemika Gubkina.

(Machinery.—Vibration)

(Abrasion)

GUS'KCV, M. G. — "The Possibility of Increasing the Rate of Motion of Liquids in the Pipelines of Ship Systems." Leningrad, 1956. (Dissertation for the Degree of Candidate in Technical Sciences.)

So.: Knizhnaya Litopis', No. 7, 1956.

Investigation of the Trudy LKI no.29:2	ne rate of flow charact	of flow characteristics of throttle valves. (MIRA 14:7) croitel'nyy institut, kafedra konstruktsii			
l. Leningradskiy k sudov. (Fluid dynam		e fitting)			

LOSKUTOV, Vladimir Vasil'yevich; KHORDAS, Georgiy Saulovich.

Prinimal uchastiye LAZAREV, F.L., inzh.; ALEKSANDROV,
A.V., dots., kand. tekhn. nauk, retsenzent; MOCHUL'SKIY,
A.A., inzh.; GUS'KOV, M.G., nauchn. red.; OZEROVA, Z.V.,
red.; SHISHKOVA, L.M., tekhn. red.

[Hydraulic calculations of ship systems] Gidravlicheskie

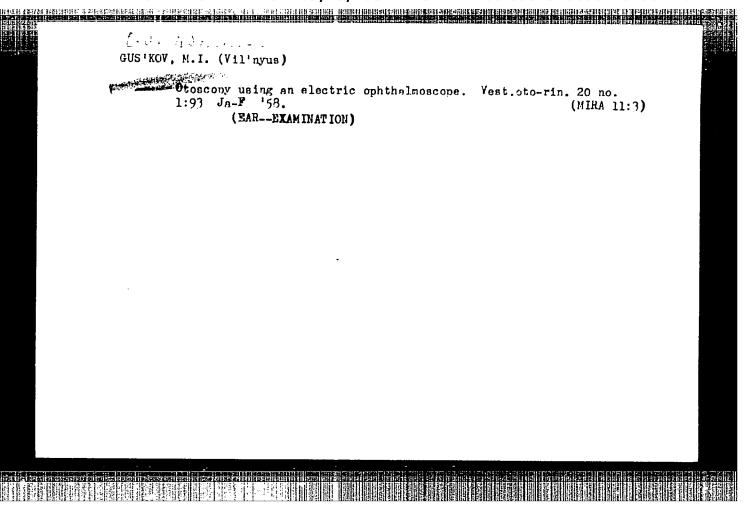
[Hydraulic calculations of ship systems] Gidravlicheskie raschety sudovykh sistem. Leningrad, Sudpromgiz, 1963.
311 p. (MIRA 17:3)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617620012-6"

GUS'KOV, M.I.

Apparatus for objective measurement of heterophoria. Vest. oft., Moskva
32 no.3:32-35 May-June 1953.

1. Vil'nyus.



GUS'KOV, M.I. (Vil'nyus)

Voluntary movement of the eardrums. Vest.otorin. 20 no.2:114

Mr-Ap '58. (MIRA 12:11)

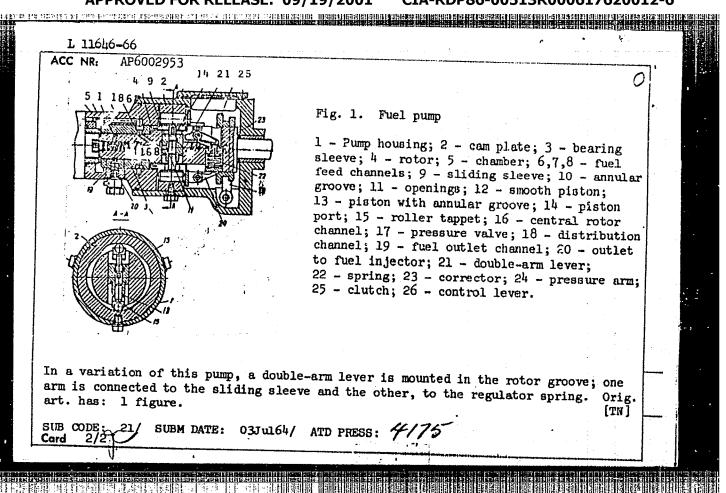
(TYMPANIC MEMBRANE)

GUS'.OV, M.I. (Vil'nyus) Examination of latent strabismus by an objective method. Vest. oft. 71 no.2:32-33 Mr-Ap '58. (MIRA 11:4) (STRABISMUS, diag. objective exam. method in latent strabismus)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617620012-6"

. /	A) L 11646-66 EWT(d)/EWT(m)/EWP(f)/T/EWA(c) DJ
. \$	NR. AP6002953 SOURCE CODE: UR/0286/65/000/024/0124/012
4.]	TOR: Dolganov, M. S.; Milyayev, G. G.; Kotov, A. G.; Filippov, V. V.; Gug kov,
37	; Koshman, E. I.
2	none
oment	: Rotary fuel pump. Class 46, No. 177228 [announced by Noginsk Fuel Equipment (Noginskiy zavod toplivnoy apparatury)]
	E: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 124-125
	TAGS: fuel pump, internal combustion engine
ned	ACT: The proposed pump for internal combustion engines contains a pressure, a measuring device, and a rotor-distributor with pressure pistons positione ite one another which are driven by a fixed cam plate (see figure). To improve
ar	gine's operation by improving the cut-off at the end of the injection, the ring device is made in the form of a sliding sleeve with an internal annular
•	e radially located in the rotor. The piston also has an ennular groove
	position, relative to the sleeve groove, determines the piston's stroke.
. :	
i.	
	1/2 UDC: 621.43.031



GUJ'KOY, 1., YERRIAKOY, V.

Gas Pipes

Economize material in each operation. Zbil.-kom. khoz. 2 no. 5, 1952.

Monthly List of Russian Accessions. Library of Congress, September 1952. UNCLASSIFIED

KUZ'MENKOV, A.R., inzh.; GUS'KOV, P.G., inzh.; SKLYAROV,L.A., inzh.

Automation of the benzene scrubbing department at the Stalinsk Coke-Chemical Plant. Mekh.i avtom. proizv. 15 no.6:18-20 Je '61.

(Stalinsk--Coke industry)

(Automation)

GUS'KOV, P.I., inzh.; ZHUKOVSKIY, A.A., inzh.

Instrument for automatically recording and measuring the slippage of a belt on the driving roller of a conveyer. Izv. vys. ucheb. zav.; gor. zhur. no.2:133-136 '61. (MIRA 14:3)

1. Chelyabinskiy nauchno-issledovatel'skiy institut gornogo dela. Rekomendovana kafedroy avtomatizatsii proizvodstvennykh protsessov Sverdlovskogo gornogo intituta im. V.V. Vakhrusheva.

(Conveying machinery— Testing)

VESHENEVSKIY, S.N.; VORONETSKIY, B.B.; GUS'KOV, P.S.; KLIMOV, D.Yu.; MASLENNIKOV, L.V.; PASHKOV, M.V.; PETROV, I.I.; SOKOLOV, I.I.; STEPANOV, Yu.V.; TUROVSKAYA, P.G.; KHECHUMAN, A.P.; TSEIN, V.S.; SHTEYN, I.M.

Professor Konstantin Vasil'evich Urnov, 1907-1964; obituary. Elektrichestvo no.3:91 Mr '65. (MIRA 18:6)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617620012-6"

L 10998-66

ACC NR: AP600L979

SOURCE CODE: UR/0105/65/000/003/0091/0091

AUTHOR: Veshenevskiy, S. N.; Voronetskiy, B. B.; Gua'kov, P. S.; Klimov, D. Yu.; Maslennikov, L. V.; Pashkov, M. V.; Petrov, I. I.; Sokolov, I. I.; Stepanov, Yu. V.; Turovskaya, P. G.; Khechumyan, A. P.; Tsein, V. S.; Shteyn, I. M.

ORG: none

TITLE: Professor K. V. Urnov

SOURCE: Elektrichestvo, no. 3, 1965, 91

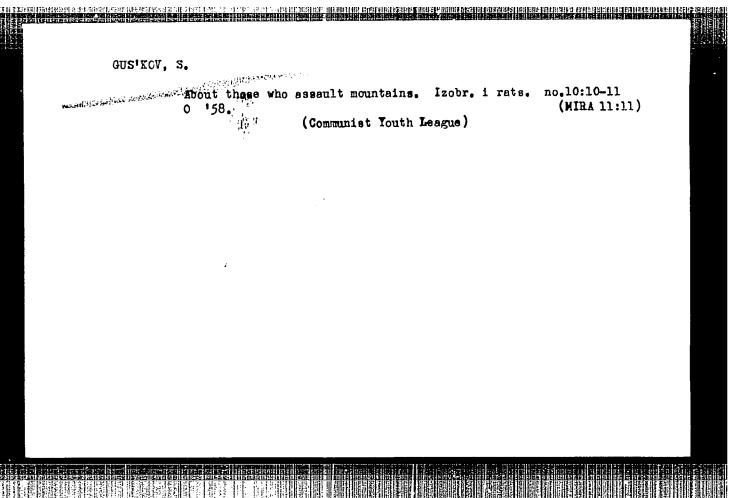
TOPIC TAGS: scientific personnel, academic personnel

ABSTRACT: Konstantin Vasilevich Urnovidied on 11 December 1964 after a serious illness. He was a distinguished scientist and one of the oldest electropolygraphists. He was born in 1907 and graduated from the Ivanovskiy Polytechnic Institute in 1929, after which he continued to work on the Board of Electric Installations for the next 25 years. His outstanding contribution was to relate successfully the activities of industry with those of the higher educational institutions. His name is closely linked to the development of domestic polygraphic machinery. He was imaginative, creative and bold. Since 1935 he was also engaged in teaching and scientific research work at the Moscow Power Institute and the Moscow Polygraphic Institute where he set up a course on "Electric Drives and Automation of Polygraphic Machines". He is the author of over 30 inventions and published works, including one book. He was a scientist-communist, a man of great knowledge, a good colleague and friend. Orig. art. has: 1 figure. (JPRS)

SUB CODE: 05 / SUBM DATE: none

Cord 1/1

UDC: 621.313.1/3



- 1. GUS'KCV, T. D.
- 2. USSR (600)
- 4. Cattle Feeding and Feeding Stuffs
- 7. Our experience in pasture fattening of cattle. Dost. sel'khoz. no. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

AUTHORS:

Gus'kov, V.A., Fioshin, M.Ya.

76-11-29/35

TITLE:

A Method for Folarization Measurements in Solutions of Low Electric Conductivity (Metodika polyarizatsionnykh izmereniy v slabo elektroprovodnykh rastvorakh)

PERIODICAL:

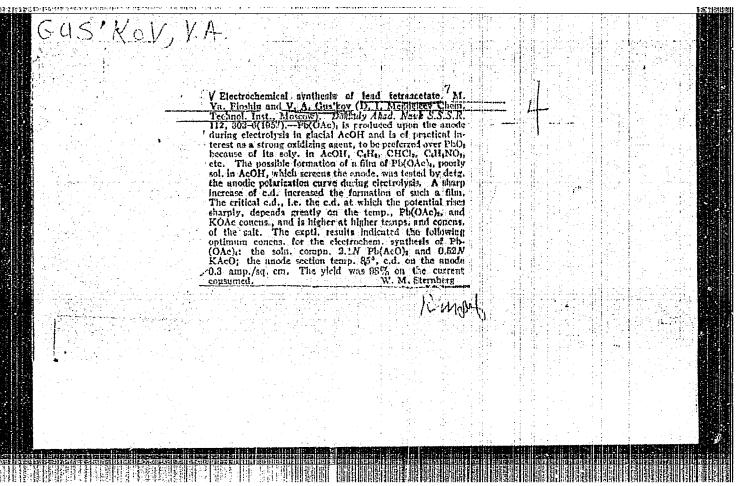
Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 11, pp.2575-2577 (USSR)

ABSTRACT:

On the basis of an example concerning solutions in glacial acetic acid a method for measuring polarization is described. A system consisting of an ordinary potentiometer η -4 and an amplification attachment η -2 is used. When recording polarization curves the authors met with difficulties: While the motor of the thermostat stirring device, or when connecting various resistances to the polarization circuit, the capacity of the casing changed although it always had the same potential when measured. Therefore the amplifier casing must, above all, be very carefully earthed. Besides, the line from the calomel-semi-element must be carefully screened. The latter must in all cases be connected with the network. There is 1 figure.

Card 1/2

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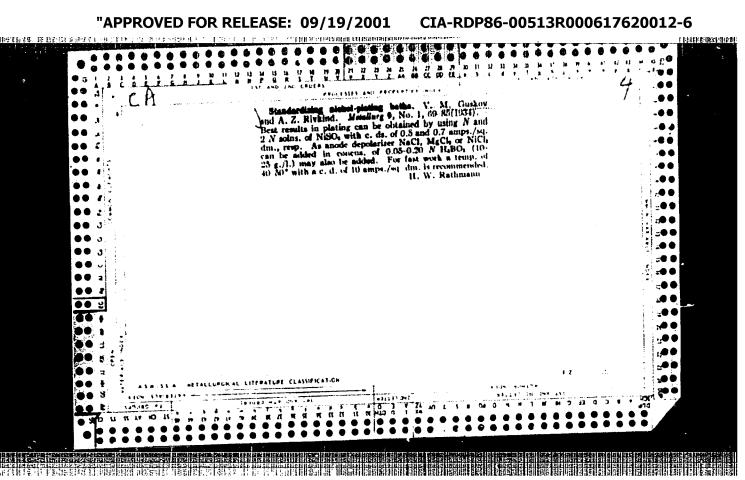


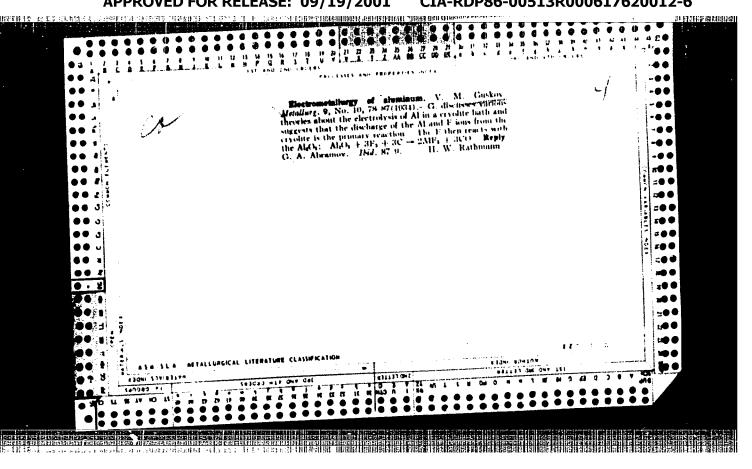
1					The man	OHT 2								
	Pythova, Z.I. Special Features of the Production of Short-Life Radiomotive Thotope Preparations Card 4/8	midiantities of Mercury in HgCl2 Preparation Tagged with HgV3 Qualitaties of Mercury in HgCl2 Preparation Tagged with HgV3 Qualikov, Y.I. Preparation of β- and ¶- Radiation Sources	Amoorbinate	Buthary I.E., 127_Asinoz, and 123_3222721_ returns or Detecting Audirms Imputios Tagged With P2 in Disubstituted Sodium Phosphate Korrraya L.S. Production of Carrier-Free P32	** Levin, V.I., <u>72.5. Shirukhara, 4.8. Kozireva, end 617. Norphory.</u> **Froduction of Carrier-Proc Pt 13 From Jeutron-Invalided Cedua: **Sangharakor. N.D., and N.T. Tronova. Production of Certain Preparations Containing Pt. parations Containing Pt.	Earth, V.I., and M.M. Colutrins. Production of AsTT without Carrier From Neutron-Irradiated Germanium	Layin, V.I., and M.O. Serebryskov. Production of Carrier-Pree Columnia, M.M., and V.I. Lovin. Production of Sodium Chromat	Enghatova, L.M., and S.A. Grushin, Production of and Syrica Tagged with Madioscrive, Sulfur	work of extract, and ship New listryments and equi- carding seasurement mech carding seasurement mech candidate of Cheulcal Schemes, i.s. ship mid V.T. Showtak, Candidate as having helped directly as having helped directly	obtaining and measuring to the forecord, the articles or practical interest to give process information, the collection contains of a number of carrier-free therapeutic preparations, in a number of tagged of the a number of tagged of	PURPOSE: This collection of articles is intended for scimplish technical personnel working in the production of radioactive isotopes. Communer. The collection contains original studies on methods of	active Preparations; Gold 1960, 307 p. Errata six General Ed.; Valerty Tiktor Tech. Ed.; N.A. Vlasova.	PHASE I DOOK EXPLOITATION 507/3563 Metody polunherlys i immerentys radioaktivnykh preparatovy abornik akatay (Mathoda for the Production and heasauterent of Addio-	
	ures of the Production of tions	Frequencies of B- and T - Radiation Sources	rozova. Production of Pe5	""." Asthor and [6.3] STOPTIME For must imput test tasked with PJ2 in Disub e Production of Carrier-Free PJ2	Cale 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	1 Mish Gr51 rins. Production of AsTT a sted Genmanium	Tyakov. Production of Car	mahin. Production of Iro	Week latered by and the value to annivis of preparations. Week latered by an advance of the province of the pr	obtaining and measuring rydioactive propartices. According to the forecast the forecast the articles contain now data, and are of theories or or process information. An action that they discuss methods or or process information. And attent to several survey articles give process information. And attent to several survey articles the collection contains discussions on the production of radio-checked the propagation and several colloidal and other a number of carrier-free slotteness several colloidal and other throughout the propagation. Also discussed are methods for preparations and several colloidal and other throughout the propagation of the propagation of the propagations. Also discussed are methods in the small-checked and the propagation of the propagations and the second of the propagation of t	articles is intended for na in the production of ra	parations; Collection of Artifices Provough. p. Errata slip inserted. 5,000 copies printed. Talerly Tiktoroyich Bochkarev; Ed.: M.A. Sagaro; M.A. Vlasova.	I DOOK EXPLOITABLICH SOT/3543 ya radioaxtivnykh preparatovi Production and Measurement of	
0	Short-11fe 127	h # ₆ 203 114	107	100	Tated Serius 77 Certain Pre- 83	59 Without 64	rier-Free 53	Iron Sulfide	ingerations on the control of the co	of theoretical substitutes of theoretical survey articles on of radio- cus, brainfore idal and other date or prepar- elastry nearly- elastry nearly- elastry nearly-	dichoractive iso-	Oriniet.	tov, sbornik cov, sbornik of Andio-	

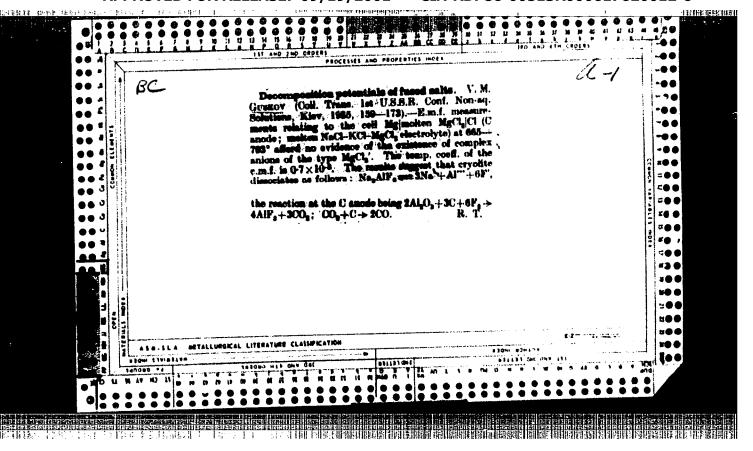
GALITSKIY, N.V.; GUS'KOV, V.M. [deceased]

Studying the pressure of chromium trichloride vapor. Izv. vys. ucheb. zav.; tsvet. met. 8 no.4:75-77 165. (MIRA 18:9)

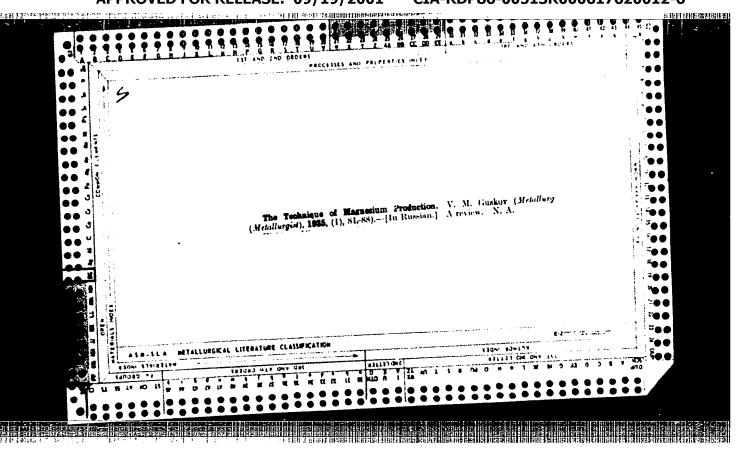
1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut alyuminiyevoy, magniyevoy i elektrodnoy promyshlennosti.

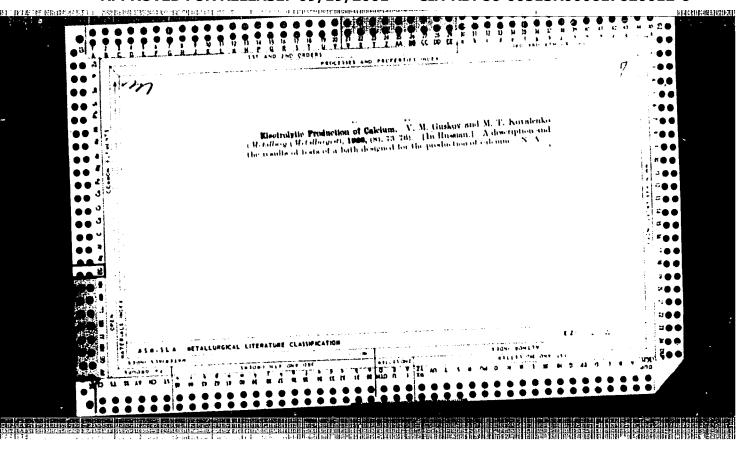


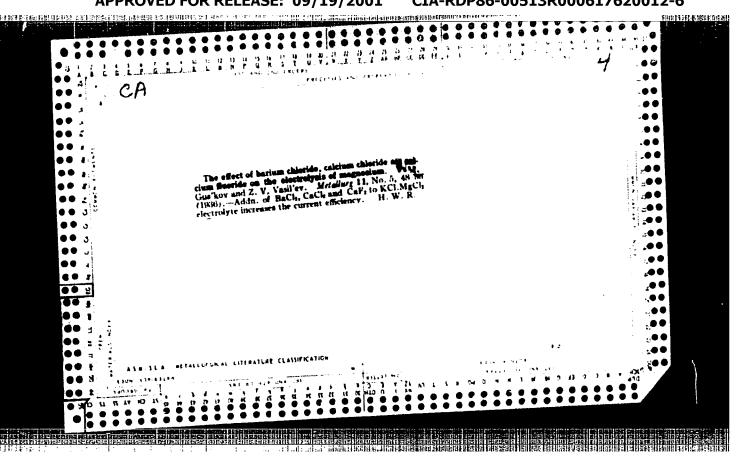


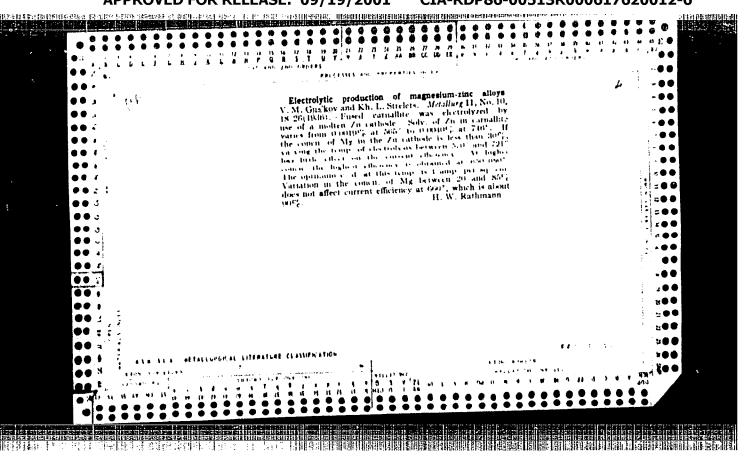


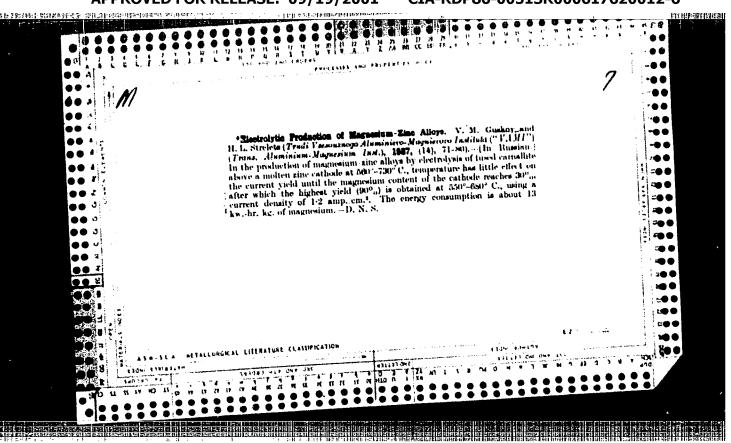
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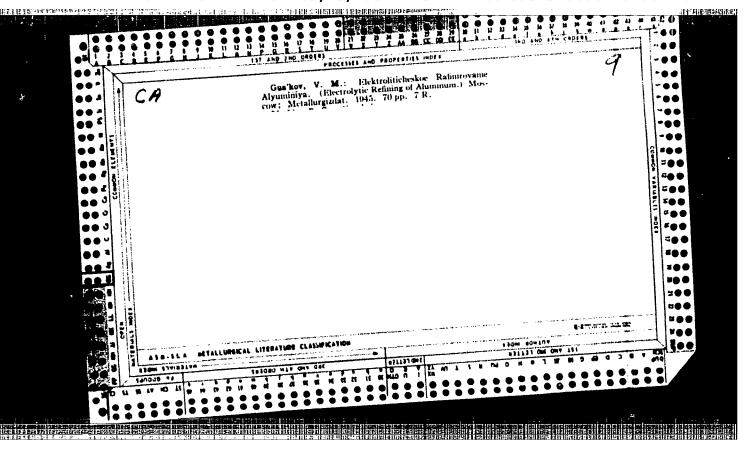
GUS'KOV, V. M.

Electrolytic obtaining of aluminum Leningrad, Gos. nauchno-tekhn. izd-vo
(Mic 53-159)

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Microfilm TN-6

1. Aluminum-



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BELYAYEV, Anatoliy Ivanovich, professor, doktor; ZHUKOVSKIT, Ye.I.,

BELYAYEV, Anatoliy Ivanovich, professor, doktor, retsenzent;

professor, retsenzent; GRETVER, N.S., professor, doktor, retsenzent;

TSAMEGOEODTSEV, I.D., GUS'KOV, V.M., professor, doktor, retsengent; TSAREGOEOUTSEV, I.D., dotsent, retsengent; FALEYEV, P.V., dotsent, retsengent; GUSAKOVSKIY, V.K., dotsent, retsenzent; CHERNOV, A.N., redaktor; ATTOPOVICH, M.K., tekhnicheskiy redaktor [Metallurgy of light metals; general course] Metallurgiia legkikh metallov; obshchii kurs. 4-e isd. Moskva, Gos. nauchno-tekhn. izdvo lit-ry chernoi i tavetnoi metallurgii, 1954. 403 p. (MIRA 7:10) (Light metals--Metallurgy)

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SCHESE I. L. ALBERT POLICE A. L. O. RELEGISTATION ENTER TRUE HARDEN BURGER BURG
                                                                AGEYEV, P.Ya.; ALABYSHEV, A.F.; BAYMAKOV, Yu.V.; BELYAYEV, A.I.; BATASHEV, K.P.;
                                                                                                                          BUGARBY, L.A.; VASIL'YEV, Z.V.; GUPALO, I.P.; GUS'KOV, V.M.; ZHURIN, A.I.;
VETYUKOV, M.M.; KOSTYUKOV, A.A.; LOZHKIN, L.N.; OL'KHOV, N.F.;
OCTROVA M.V. DEROMERY T. DILLUY AND CONTROL OF THE CONTROL OF T
                                                                                                                           OSIPOVA, T.V.; PERTSEV, I.I.; RUMYANTSEV, M.V.; STRELETS, Ye.L.;
                                                                                                                           FIRSANOVA, L.A.; CHUPRAKOV, V.YB.
                                                                                                                            Georgii Alekseevich Abramov. TSvet.met. 27 no.2:72-73 Mr-Ap '54. (MRA:10:10)
                                                                                                                                                                                                                                                                                              (Abramov, Georgii Alekseevich, 1906-1953)
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CIA-RDP86-00513R000617620012-6" APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617620012-6 "APPROVED FOR RELEASE: 09/19/2001

137-58-6-11495

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 34 (USSR)

Gus'kov. V.M., Ivanov, A.I., Pashkevich, L.A. AUTHORS:

Fusibility Diagram of Three Cross Sections of the Quaternary TITLE:

System NaF-AlF3-CaF2-BaF2 (Diagramma plavkosti trekh

razrezov chetvernoy sistemy NaF-AlF3-CaF2-BaF2)

PERIODICAL: Tr. Vses. alyumin.-magn. in-ta, 1957, Nr 39, pp 251-273

To determine the optimum composition of an ABSTRACT:

NaF-AlF3-CaF2-BaF2 bath for Al refining, a study was conducted of the fusibility of this quaternary system within the limits of the concentrations of the components needed to obtain high-purity Al. Methods of thermal, and in part, crystal optic analysis, are used to study 3 incomplete primary sections with the following constant BaF2 contents: 22, 27, and 32 weight %. 28 secondary sections are plotted and 3 two-dimensional diagrams of primary sections of equal concentration, with isotherms of primary crystallization at 25°C intervals. The twodimensional diagrams showed the presence of four fields of

primary crystallization and a region adjacent to the AlF3 corner

for a mixture the fusion of which could not be carried to Card 1/2

CIA-RDP86-00513R000617620012-6" **APPROVED FOR RELEASE: 09/19/2001**

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137-58-6-11495

Fusibility Diagram of Three (cont.)

completion because of the high volatility of AlF3, i.e., an unrealizeable fifth region. The immersion method of crystal optics established the substances of primary crystallization for 3 fields out of 4 and a tentative mineralogical phase composition for each of the fields. The presence of melts with temperatures of primary crystallization 100-1200 lower than the temperature of fusion of the electrolyte tested in the production of high-purity Al is established.

N.P.

- 2. Halogen fluorides--Analysis 1. Halogen fluorides--Effectiveness
- 3. Aluminum--Processing

Card 2/2

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617620012-6 经经济基金的复数 医眼底态 化物金属 经通过的 医性皮肤性 医克勒克氏征 经时间 经营业 化光度 医乳腺性 经交易的 医眼神经 计通过 计图片 计可谓用 计图片图片 计原本图像 计多数 医电影性 化二甲基苯基甲基甲基

SOV/137-58-7-14542

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 86 (USSR)

Gus'kov, V.M., Zuyev, N.M., Voynitskiv, A.I. AUTHORS:

Aluminothermal and tillicothe chial Methods of Production of MITTE

Polaganim from Chlorine Salts Thereof (Alymomos) i schkotermicheskiy sposoby poluchemya kaltya iz yego khioristoy

Tr. Vses. n.-i. alyumin.-magn. in-ta, 1957, Nr 40, pp PERIODICAL:

307-336

A brief review of the development of K metallurgy. The re-ABSTRACT:

sults of laboratory investigations of the thermal process of K production are presented. It is found that the quantity of reductant and the amount of CaO in the charge affect recovery of the metal in equal measure. The following charge compositions

are recommended. For reduction with Al. a molecular CaO:KCl ratio of 0.6-1.0, Al:KCl = 0.8-1.2. Correspondingly, for reduction by silica, CaO:KCl = 0.6-0.9, and Si:KCl = 0.7-1.1.

An increase in temperature reduces the duration of the thermal process. Maximum metal extraction is attained when the bri-

quets are held at a temperature of >900°C. This temperature Card 1/2

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SOV/137-58-7-14542

Aluminothermal and Silicothermal Methods of Production (cont.)

permits nearly 100% recovery in Al reduction and up to 70% in Si reduction, provided that the reductant is finely ground and the CaO is under 36μ . The working pressure in the retort is ≤ 0.5 mm Hg. The addition of KF to the charge, particularly in Al reduction, increases K recovery. When a silicoaluminum alloy or ferrosilicon is used as the reductant, it must be borne in mind that the reducing power of Al and Si in alloys diminishes as the amount of impurities rises. Bibliography: 17 references.

L.P.

1. Potassium chlorides--Processing 2. Potassium--Production 3. Aluminum --Chemical reactions 4. Silicon--Chemical reactions

Card 2/2

CIA-RDP86-00513R000617620012-6 "APPROVED FOR RELEASE: 09/19/2001 and a da fill Collice Billight beitelete bei beite bei beiter bei beiter beiter

SOV/137-58-7-14541

Translation from: Referativnyy zhurnal, Metallurgiya, 1950, Nr 7, p 86 (USSR)

Zuyev, N.M., Gus'kov, V.M. AUTHORS:

Coloration of the Sublimate in Thermal Production of Potassium TITLE:

From its Chlorine Salts (Okrashivaniye vozgona pri termi-

cheskom poluchenii kaliya iz yego khloristoy soli)

Tr. Vses. n.-i. alyumin.-magn. in-ta, 1957, Nr 40, pp PERIODICAL:

337-339

The coloration of the sublimate KCl (obtained in thermal ABSTRACT:

production of K) under the action of K fumes is hypothesized to result from the formation of sub-compounds of K or from the presence of dispersed K particles of colloidal type. On the basis of the chemical, X-ray, and crystal-optical investigations of the colored sublimates, and of the known temperatures of formation and decomposition of the sub-compounds, the

authors believe the reason for the coloration to be colloidal particles of K.

L.P. 1. Potassium--Production 2. Potassium chlorides--Color

3. Potassium vapors--Chemical reactions Card 1/1

CIA-RDP86-00513R000617620012-6 "APPROVED FOR RELEASE: 09/19/2001 HAR ER FRIEDRICH STEINE FRANK FRANK

SOV/137-58-7-14560

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 88 (USSR)

Voynitskiy, A.I., Gus'kov, V.M., Zuyev, N.M. AUTHORS: managraphic de la managraphic de la filipe de managraphic de la

Trends in the Development of the Production of Sodium and of TITLE:

Alloys of Sodium and Potassium Required to Produce Titanium by Sodiumthermal and Combined Methods (O putyakh razvitiya proizvodstva natriya i splavov natriya s kaliyem, neobkhodimykh dlya polucheniya titana natriyetermicheskim i kombini-

rovannym sposobami)

Tr. Vses. n.-i. alyumin.-magn. in-ta, 1957, Nr 40, pp PERIODICAL:

340-352

The results of laboratory experiments in the electrothermal ABSTRACT:

production of Na and K alloys, based on reduction in vacuum of a mixture of Na and K chlorides by ferrosilicon or by primary Si-Al alloy in the presence of CaO, are adduced. Spent magnesium-plant electrolyte containing Na and K chlorides is suggested as the raw material for production of the alloys. Process procedures and compositions of mixes for production of

Na and Na-K alloys are suggested. The design of vacuum

equipment developed for this process is adduced. The furnace Card 1/2

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SOV/137-58-7-14560

Trends in the Development of the Production of Sodium (cont.)

has internal and external heating. Side and bottom condensation of the Me are provided for. Hot charging and discharging of the N_2 -filled furnace (without cooling) are provided.

L.P.

- 1. Sodium--Production 2. Sodium alloys--Production 3. Potassium alloys--Production 4. Sodium chlorides--Sources 5. Potassium chlorides--Sources

Card 2/2

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SOV/137-58-7-14533

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 85 (USSR)

AUTHOR:

Gus'kov, V.M.

TITLE

Prospects for the Production of Very High-purity Aluminum (Perspektivy polucheniya ul'trachistogo alyuminiya)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 8, pp 73-76

ABSTRACT:

A review is presented of a number of processes for the production of high-purity Al by electrolytic refining, distilling into halide sub-compounds, floating-zone recrystallization, and the growing of crystals. It is noted that some of these processes permit the production of metal of 99.9995% purity. The production of very high-purity metal requires a combination of these methods. The areas of application of high-purity Al are listed.

L.P.

1. Aluminum--Production 2. Aluminum--Purification

Card 1/1

AUTHOR: Gus'kov, V.M., Professor.

136-5-5/14

TITLE: Some ideas on processes occurring during electrolysis of cryolite-aluminamelts. (Nekotorye predstavleniya o protsessakh protekayushchikh pri elektrolize kriolit-glinozemnykh rasplavov.)

PERIODICAL: "Tsvetnye Metally" (Non-ferrous Metals) 1957, No.5, pp. 29 - 34 (U.S.S.R.)

ABSTRACT: The author selects for discussion those problems on the electrolysis of cryolite-alumina mets which have been most fully studied but not entirely solved; he also indicates promising lines for further research. On the solubility of aluminium in the melt the conclusion is that this is better explained by the formation of lower-valency aluminium compounds than by the colloidal theory. After discussing equations relating the yield of metal with respect to current the author concludes that no universal equation will be found for cryolite-alumina melts because of the complexity of factors involved. For explaining the mechanism of current transfer in the melts further research is necessary (present ideas being largely unsubstantiated by experiment), particularly with radio-active isotopes. Insufficiency of experimental evidence is attributed also to electrode-process theories in the melts and work on

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Some ideas on processes occurring during electrolysis of cryolite-alumina melts. (Cont.) 136-5-5/14

individual deposition-potentials, polarization curves and the development of new experimental techniques are recommended. The author considers that investigations of the influence of magnesium fluoride are hampered by the use of low-activity magnesia, and do not give sufficient information on the effect of additions on the various processes involved in the electrolysis.

ASSOCIATION: All-Union Aluminium-magnesium Institute. (VAMI) AVAILABLE:

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617620012-6"

SOV/137-58-10-20721

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 54 (USSR)

Gus'kov, V.M., Belyayev, A.P. AUTHORS:

Production of High-purity Magnesium and Alloys Based TITLE:

Thereon (Polucheniye magniya vysokoy chistoty i splavov na

yego osnove)

PERIODICAL: V sb.: Legkiye metally. Nr 4. Leningrad, 1957, pp 95-99

A procedure is developed for sublimation of electrolytic Mg ABSTRACT:

in vacuum and the production of high-purity metal. The process is run in vertical steel retorts (R) with a capacity of 250 kg Mg in a vacuum furnace with Ni-Cr heaters. The Mg pigs are roasted at 350-400°C to remove paraffin and wrapping paper, the surfaces are cleaned, and they are placed in the crucible of the R which is placed in the zone of sublimation. After the R and furnace are sealed, the air is evacuated from them to a pressure of 0.2-mm Hg in the R and 2-3-mm Hg in the furnace. The furnace temperature is then raised to 7000,

and the pressure in the R to 0.05-0.09 mm Hg. The sublimation of the Mg proceeds at a rate of ~9 kg/hr. The Mg is sublimated in the upper portion of the R in the form of large

Card 1/2